

ANALYST:		VPDES NO	
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Parameter: Ammonia Nitrogen

Method: Distillation

Revised 03/01

METHOD OF ANALYSIS:

	18th Edition of Standard Methods 4500-NH ₃ B
	EPA Methods For Chemical Analysis 350.2
	AOAC 15th Edition 973.49

	Y	N
1) Is sample dechlorinated prior to distillation? [SM-4.b; 350.2-4.3]		
2) Is ammonia distillation apparatus constructed of borosilicate glass with ground glass or TFE joints/connections (rubber or plastic tubing is to be avoided)? [SM-2; 350.2-5.1]		
3) Is ammonia free water used in all aspects of the procedure? [SM-3.a.1; 350.2-6.1]		
4) Are all reagents prepared in accordance with the selected approved method? [SM-3; 350.2-6]		
5) Is the distillation apparatus steamed out with a solution of borate buffer and reagent water adjusted to a pH 9.5 SU immediately before each use? [SM-4.a; 350.2-7.1]		
6) Is the distillation apparatus kept assembled until samples are distilled? [SM-4.c; Permit]		
7) Is the appropriate absorbing solution used in the collection flask (boric acid - nesslerization, indicating boric acid - titrimetric, ISE & automated phenate - 0.04N H ₂ SO ₄)? [SM-4.c; 350.2-7.3]		
8) Is the distillation carried out at a rate of 6-10 mL/min? [SM-4.c; 350.2-7.3]		
9) Are clean glass beads or boiling chips used in the distillation flask? [SM-4.a; 350.2-7.1]		
10) Does the delivery tube of the distillation apparatus extend below the surface of the receiving solution? [SM-4.c; 350.2-7.3]		
11) Is the borate buffer solution added to the sample before distillation? [SM-4.b; 350.2-7.3]		
12) Is the sample pH adjusted to 9.5 SU with 6N NaOH just prior to distillation? [SM-4.b; 350.2-7.2]		
13) Are reagent volumes adjusted proportionately for smaller sample volumes? [Permit]		

PROBLEMS: